

PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of		Attorney Docket Number	02307V-139100US
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U.S. PATENT DOCUMENTS*

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-4,149,009	04-10-1979	Yoneoka et al.	
	AB	US-4,216,339	08-05-1980	Couteau et al.	
	AC	US-4,232,171	11-04-1980	Yoneoka et al.	
	AD	US-4,319,037	03-09-1982	Yoneoka	
	AE	US-4,480,122	10-30-1984	Horienko et al.	
	AF	US-4,613,411	09-23-1986	Hsu et al.	
	AG	US-4,778,923	10-18-1988	Aplin et al.	
	AH	US-4,994,603	02-19-1991	Mueller et al.	
	AI	US-5,026,904	06-25-1991	Lodge et al.	
	AJ	US-5,144,062	09-01-1992	Chen et al.	
	AK	US-5,194,675	03-16-1993	Joerg et al.	
	AL	US-5,223,102	06-29-1993	Fedkiw, Jr. et al.	
	AM	US-5,399,745	03-21-1995	Yoneoka et al.	
	AN	US-5,401,873	03-28-1995	Zehner et al.	
	AO	US-5,770,761	06-23-1998	Lin et al.	
	AP	US-5,840,971	11-24-1998	Gubelmann-Bonneau	
	AQ	US-5,917,085	06-28-1999	Lippert et al.	
	AR	US-6,008,399	12-28-1999	Chang et al.	
	AS	US-6,015,875	01-18-2000	Smith, Jr. et al.	
	AT	US-6,232,490 B1	05-15-2001	Patois et al.	
	AU	6,379,507 B1	04-30-2002	Satoh et al.	
	AV	6,399,812 B1	06-04-2002	Yan et al.	
	AW	6,447,745 B1	09-10-2002	Feeley et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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PTO/SB/08B (08-03)

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/633,299
		Filing Date	September 15, 2003
		First Named Inventor	Liu, Haichao
		Art Unit	1621
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	02307V-139100US
Sheet	2	of	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AX	Al. Mamou; "The Production of Methyl Formate by the Vapor-Phase Oxidation of Methanol"; <u>Journal of Catalysis</u> 1982, Vol. 77, pp. 279-288.	
	AY	HASAN, Masihul et al.; "Oxidation of primary alcohols to aldehydes with oxygen catalysed by tetra-n-propylammonium perfluorinate"; <u>Journal of Molecular Catalysis</u> 2002, Vol. 180, pp. 77-84.	
	AZ	Ji, Hong-Bing et al.; "Environmentally friendly alcohol oxidation using heterogeneous catalyst in the presence of air at room temperature"; <u>Catalysis Communications</u> 2002, Vol. 3, pp. 511-517.	
	BA	KAKIUCHI, Nobuyuki et al.; "Pd(II)-Hydroxalate-Catalyzed Oxidation of Alcohols to Aldehydes and Ketones Using Atmospheric Pressure of Air"; <u>J. Org. Chem.</u> 2001, Vol. 66, pp. 6620-6625.	
	BB	LIU, Haichao et al.; "Synthesis of methylformate, dimethoxymethane, formaldehyde, and their mixtures via selective oxidation of methanol on RuO ₄ -based catalysts"; <u>Department of Chemical Engineering, University of California at Berkeley</u> .	
	BC	LOUIS, Catherine et al.; "Catalytic Properties of Silica-Supported Molybdenum Catalysts in Methanol Oxidation: The Influence of Molybdenum Dispersion"; <u>Journal of Catalysis</u> 1998, Vol. 109, pp. 354-358.	
	BD	MALLAT, T. et al.; "Oxidation of alcohols with molecular oxygen on platinum metal catalysts in aqueous solutions"; <u>Catalysis Today</u> 1994, Vol. 19, pp. 247-284.	
	BE	MATSUMOTO, Masakatsu et al.; "Oxidation of Allylic Alcohols to Unsaturated Carbonyl Compounds by Ruthenium Dioxide and Dioxigen/Ruthenium Dioxide"; <u>J. Org. Chem.</u> 1984, Vol. 49, pp. 3435-3436.	
	BF	MATSUSHITA, Tsuyoshi et al.; "Highly efficient oxidation of alcohols and aromatic compounds catalysed by the Ru-Co-Al hydroxalate in the presence of molecular oxygen"; <u>Chem. Commun.</u> 1999, pp. 265-266.	
	BG	MUSAWIR, Mehdi et al.; "Highly efficient liquid-phase oxidation of primary alcohols to aldehydes with oxygen catalysed by Ru-Co oxide"; <u>Chem. Commun.</u> 2003, pp. 1414-1415.	
	BH	POULSTON, S. et al.; "Aerobic Oxidation of Alcohols with Palladium-Hydroxalate"; <u>Platinum Metals Rev.</u> 2002, Vol. 46, No. 1, pp. 26.	
	BI	STUCHINSKAYA, Tatiana L. et al.; "Liquid-phase oxidation of alcohols with oxygen catalysed by modified palladium(II) oxide"; <u>Catalysis Communications</u> 2003, Vol. 4, pp. 417-422.	
	BJ	TRONCONI, Enrico et al.; "Methyl Formate from Methanol Oxidation over Coprecipitated V-Ti-O Catalysts"; <u>Ind. Eng. Chem. Res.</u> 1987, Vol. 26, pp. 1269-1275.	
	BK	VALENTE, N. Graciela et al.; "Structure and activity of Sn-Mo-O catalysts: partial oxidation of methanol"; <u>Applied Catalysis</u> 2001, Vol. 205, pp. 201-214.	
	BL	YAMAGUCHI, Kazuya et al.; "Creation of a Monomeric Ru Species on the Surface of Hydroxypapillite as an Efficient Heterogeneous Catalyst for Aerobic Alcohol Oxidation"; <u>J. Am. Chem. Soc.</u> 2000, Vol. 122, pp. 7144-7145.	
	BM	YAMAGUCHI, Kazuya et al.; "Supported Ruthenium Catalyst for the Heterogeneous Oxidation of Alcohols with Molecular Oxygen"; <u>Angew. Chem. Int. Ed.</u> 2002, Vol. 41, No. 23, pp. 4538-4542.	

Examiner Signature	Date Considered
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		First Named Inventor	Liu, Haichao	
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	BN	YAMAGUCHI, Kazuya et al.; "Efficient Heterogeneous Aerobic Oxidation of Amines by a Supported Ruthenium Catalyst"; <i>Angew. Chem. Int. Ed.</i> 2003, Vol. 42, pp. 1480-1483.	
	BO	ZHAN, Bi-Zeng et al.; "Zeolite-Confined Nano-RuO ₂ : A Green, Selective, and Efficient Catalyst for Aerobic Alcohol Oxidation"; <i>J. Am. Chem. Soc.</i> 2003, Vol. 125, pp. 2195-2199.	

Examiner Signature	/James Kish/	Date Considered	08/27/2008
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